



PCT

## RAW SEQUENCE LISTING

DATE: 07/16/2004

PATENT APPLICATION: US/09/763,011D

TIME: 08:57:33

Input Set : A:\Jab1415.app

Output Set: N:\CRF4\07162004\I763011D.raw

3 <110> APPLICANT: CONTRERAS, ROLAND  
 4 NELISSEN, BART  
 5 DEBACKER, MARIANNE  
 6 LUYTEN, WALTER  
 7 VIAENE, JASMINE  
 8 LOGGHE, MARC GEORGE  
 10 <120> TITLE OF INVENTION: DRUG TARGETS IN CANDIDA ALBICANS  
 12 <130> FILE REFERENCE: JAB-1415  
 14 <140> CURRENT APPLICATION NUMBER: 09/763,011D  
 15 <141> CURRENT FILING DATE: 2001-02-14  
 17 <150> PRIOR APPLICATION NUMBER: PCT/EP99/05991  
 18 <151> PRIOR FILING DATE: 1999-08-16  
 20 <150> PRIOR APPLICATION NUMBER: EP 98310694.9  
 21 <151> PRIOR FILING DATE: 1998-12-23  
 23 <150> PRIOR APPLICATION NUMBER: GB 9817796.7  
 24 <151> PRIOR FILING DATE: 1998-08-14  
 26 <160> NUMBER OF SEQ ID NOS: 132  
 28 <170> SOFTWARE: PatentIn Ver. 3.2  
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 31 <211> LENGTH: 1851  
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 38 gataaaccat tgaaggaata tatttggtatt agtatattgt gtttccttat tgcctttggt 180  
 39 gggttcgttt ttggtttcga tactgggtacc atttctgggt tcattaacat gactgacttt 240  
 40 ttagaaagat ttggtggtac taaagctgac ggtactcttt acttttccaa cgtagaact 300  
 41 gggtttattga ttggtttggt caatgtgggt tgtgccattg gtgcattatt cttgtccaaa 360  
 42 gtcggtgata tgtacggtag aagagttggt atcatgactg ctatgatcat ttatattggt 420  
 43 ggtattattg tcaaaattgc ttctcaacat gcttggtatc aaatcatgat tggtagaatt 480  
 44 atcactgggtc ttgctgttgg tatgttatca gttttgtgtc cattatttat ctgagagggt 540  
 45 tctcccaaac atttaagagg tacattagtt tattgtttcc aattgatgat taccttggtt 600  
 46 attttcttgg gttactgtac cagttacggt actaagaaat attctgactc cagacaatgg 660  
 47 agaattccat tgggtttatg ctttgccttg gccttggtt tgcttggtgg tatggtaaga 720  
 48 atgccagaat ctccacgtta ccttgctcgt aaagatagaa ttgacgatgc taagatttca 780  
 49 cttgccaaaa ctaacaagggt ttctccagag gaccctgcat tataccgtga acttcaatta 840  
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58 tatccattaa aagtcagaag taaggctatg ggttttgcta atgcatgtaa ctggttgtgg 1380
59 ggtttcttga tttccttctt cacttcattt atcactgatg ctatccactt ctattatggg 1440
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61 actaaagggtc ttactttaga ggaaattgat gaattatact ctaccaagggt tgttccatgg 1560
62 aaatcagccg gttgggttcc accttctgac gaagaaatgg ttcgtgcaaa aggctatact 1620
63 ggtgatatcc acgcagatga agagcaagtt taatcaactc tttgtcaatt aatgctgtac 1680
64 ttgttttcat tttatttgct ggcatttaaa gaatacccat agttcagaaa ataaaaattga 1740
65 aaaatttaaa aaaaaacgca atatcattca ttttttttgt ttttttgaca ataataattaa 1800
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76 atcattattg gcaataaata aatgggtgtt atatctattg gtaataacta aactgggtgc 120
77 aattcaattc caatatgggc atgacaattg aaagtgttac tgttctgggt tacatattct 180
78 acaggttaca actattgatt ggtagaagt ttggtttcaa catcacctgt tgctaagaat 240
79 aaatgttggg catatcaatt gaatcatttg ttgggtgttat ggtaagtaaa tgctgggttat 300
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81 ggttgtatct attgactaaa actaccctag ggataaatgc tgaaccgtgg ttaccaactg 420
82 ttatgctggg tgtatctatt aactgcaacc accaaatgat aaatgctgaa ccataattac 480
83 caactgttac attgctggta ctacattaag aataaatgct gcatctacaa gtaccacctg 540
84 ttgtgttaat aaatgctgca cctgctagta caactgttgc tggatcatgat agttactaca 600
85 cattacacac cagacagtgg caaacaagggt tatgtagaaa ccaacgtt 648
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91 <213> ORGANISM: Candida albicans
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95 ctagccacct tgatatgggt tacattaccg gttcaaagtt tgaatactga atctaggaca 120
96 acttcaaata acacaatatc aatacttaca aaccattttc aaatactaaa ggatttgcta 180
97 ccatatagca aaacttctaa accgcaaata aaggaatcca gaccgttgat taaagttctg 240
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99 acagacgatt tagtcaggaa tagcaataaa acaatgggtg taactgaaat aaaaacgatt 360
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104 atgaaagagc aacaaaagag tttcaacgat caattagtgg atatatatac cgcaagaagt 660
105 attgttccaa tttatactac acatatcgtc acttcggcga ttccatcgta tgtacaaaa 720
106 gaagaagtaa tggtttcaca tgatactgca ccaattgtaa gtcgtcctag aacagatatt 780
107 ccagtatctc aacgaattga tactatctca aaacataaaa tgaatggaaa aaatatattg 840
108 aacaacaatc ctcgcgcca ttcagtttta atagttcctc agtttcagtt ccatgaaaga 900
109 atggccacca aaaccgaagt agcttatatg aaaccaaaaa ttgtctggac caactttcca 960
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111 gattctgaaa ttgatagtgg tgaaactgaa ttgtctgacg attattatta ctattatagt 1080
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113 aattcagaat taggcacgaa gacgccaact tttgaggatc cttttgaaca aatcaatatt 1200
114 gaagacaata aagtaatatc tgtaataaca ccaaagacaa agaaacctac tacaacagta 1260
115 tttggcactt ctactagtgc attatcaact tttgaaagta caatatttga aattcccaaa 1320
116 ttcttttatg gtagcagaag aaaacaactg agctcattca aaaataagaa cagtacaatc 1380
117 aaatttgatg tgtttgattg gatatttgaa agtgggtacta ccaatgagaa agtacatgga 1440
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123 <212> TYPE: PRT
124 <213> ORGANISM: Candida albicans
126 <400> SEQUENCE: 4
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131 20 25 30
133 Ile Ser Ile Leu Thr Asn His Phe Gln Ile Leu Lys Asp Leu Leu Pro
134 35 40 45
136 Tyr Ser Lys Thr Ser Lys Pro Gln Ile Lys Glu Ser Arg Pro Leu Ile
137 50 55 60
139 Lys Val Ser Arg Asp Gly Val Pro Ile Asn Phe His Arg Ala Pro Ala
140 65 70 75 80
142 Ile Ile Met Lys Ser Asn Lys Thr Asp Asp Leu Val Arg Asn Ser Asn
143 85 90 95
145 Lys Thr Met Val Leu Thr Glu Ile Lys Thr Ile Thr Glu Phe Ala Thr
146 100 105 110
148 Thr Thr Val Ser Pro Thr Gln Glu Phe Gln Ala Leu Gln Ile Asn Leu
149 115 120 125
151 Asn Thr Leu Ser Ile Glu Thr Ser Thr Pro Thr Phe Gln Ser His Asp
152 130 135 140
154 Phe Pro Pro Ile Thr Ile Glu Asp Thr Pro Lys Thr Leu Glu Pro Glu
155 145 150 155 160
157 Glu Ser Ser Asp Ala Leu Gln Arg Asp Ala Phe Asp Gln Ile Lys Lys
158 165 170 175
160 Leu Glu Lys Leu Val Leu Asp Leu Arg Leu Glu Met Lys Glu Gln Gln
161 180 185 190
163 Lys Ser Phe Asn Asp Gln Leu Val Asp Ile Tyr Thr Ala Arg Ser Ile
164 195 200 205
166 Val Pro Ile Tyr Thr Thr His Ile Val Thr Ser Ala Ile Pro Ser Tyr
167 210 215 220
169 Val Pro Lys Glu Glu Val Met Val Ser His Asp Thr Ala Pro Ile Val
170 225 230 235 240
172 Ser Arg Pro Arg Thr Asp Ile Pro Val Ser Gln Arg Ile Asp Thr Ile
173 245 250 255
175 Ser Lys His Lys Met Asn Gly Lys Asn Ile Leu Asn Asn Asn Pro Pro
176 260 265 270
178 Pro Asn Ser Val Leu Ile Val Pro Gln Phe Gln Phe His Glu Arg Met
179 275 280 285

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185 305      310      315      320
187 Lys Asn Leu Val Asp Glu Thr Asp Ser Glu Ile Asp Ser Gly Glu Thr
188      325      330      335
190 Glu Leu Ser Asp Asp Tyr Tyr Tyr Tyr Tyr Ser Tyr Glu Asp Asp Gly
191      340      345      350
193 Lys Glu Asp Asp Ser Asp Glu Ile Thr Ala Gln Ile Leu Leu Ser Asn
194      355      360      365
196 Ser Glu Leu Gly Thr Lys Thr Pro Asn Phe Glu Asp Pro Phe Glu Gln
197      370      375      380
199 Ile Asn Ile Glu Asp Asn Lys Val Ile Ser Val Asn Thr Pro Lys Thr
200 385      390      395      400
202 Lys Lys Pro Thr Thr Thr Val Phe Gly Thr Ser Thr Ser Ala Leu Ser
203      405      410      415
205 Thr Phe Glu Ser Thr Ile Phe Glu Ile Pro Lys Phe Phe Tyr Gly Ser
206      420      425      430
208 Arg Arg Lys Gln Ser Ser Ser Phe Lys Asn Lys Asn Ser Thr Ile Lys
209      435      440      445
211 Phe Asp Val Phe Asp Trp Ile Phe Glu Ser Gly Thr Thr Asn Glu Lys
212      450      455      460
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223 <212> TYPE: DNA
224 <213> ORGANISM: Candida albicans
226 <400> SEQUENCE: 5
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229 cgagaagatc atgaaaaatt taaagagatc aatatagcat atgaaacaat tagagattat 180
230 tatcaagaga atggggcaaaa gaacagtcaa ccgatcccta acacaaacac agagcataat 240
231 tcccatcaaa aaccacatta taacactggc ctttattcca catatcgttt tacgacctca 300
232 tctaccacga ctgataatac caatcacact ggacattcaa gttctcgggt tacttattat 360
233 aatttccacc aaaaagcgca agagaataac cgcaaacaag atgaagaaag ggcagcccaa 420
234 cgtgaacgat taaaaaagga gctcttccag aggcaacaag cggaagaagc acaacgaaag 480
235 aaggaatttg aacaaaaggc cgaattcatc aaagcatcat tacttgaaat gcgccgaaga 540
236 gaaatagaga ggcggaaaca gcaaaaggaa agggaaacaa gacaaaagga gcacgaagca 600
237 aagagggata tcaggatata acaactttca gagcaggatt cacggagtaa tcaaaactaa 660
238 gaagaagagg aagtgttcaa gaaggcccg tctactaatt cgggagcaga cgagactggg 720
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242 catgatgaaa ctaattattc aaatgagatc caaataccag aaaatgacga gtatgtacca 960
243 cagatgaaag ctacatccag tgtcaataat accaccatcc ctgcacaaag aagacatgag 1020
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245 gggtagatt cccagtgcg ggcacaacca gaaatatctg gaaaatccaa gtctccgata 1140
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247 caggacaata gtacatatat tcctcagggg tctttaggac acgaatttag aaatatattg 1260
248 gaagagcatc cacgtcaagt aaagaataaa caaaattctg gtgttgcttt tgcatttccg 1320
249 aatgcttcca agaataccga aaacaaactc cactctaatt tcaaagataa agatgaagga 1380
250 ataattgatg ttgaagctta cgtacctgat gtcaaagcag caacttcaaa caccaccca 1440
251 gcaacaggac aaacatcagc aaggtcggaa aaactgccac ccttacctac tcatattcca 1500
252 aatccatcga ccatgaatga agctcgacct catccaacaa ctccacataa aagatcaaaa 1560
253 gtcattttcg atttaaaaga tttagaacaa aagttaggta atgatattga ggatttggat 1620
254 ttttaaggata tgtatgagag tttgcctgac cattcaagta aggcaacacc taaagacgat 1680
255 attttaaccc gttctaaaag aagactttat acatataccg atggaacatc aaaggctgaa 1740
256 acgttatcta caccaatgaa caaaaatcct gttcgtggac atagtaccaa gaaaaagctt 1800
257 agtatgttgg acatgcatgc gtcttctaaa attcaaagtc ttttacctcc acaaccgcca 1860
258 caaatgtcaa ttgactcctc tgtttccaag caagtgtggg cttaaatacgt tgatgcaatc 1920
259 ttgacttatc aaagagaatt tttcaattat aaaaaagtga ttgttcaata ccaatggaa 1980
260 cggataaaca aagaccttga acattttgac gatataaatg atggttcaca cactggaat 2040
261 ttggatactt tcaagcattg tttagaacaa gattatttgg ttatgagtga gtttaatgaa 2100
262 gcgttacgac aatttggtac gaccattgcc acgtatcagc aaaacctcca gtgggttaac 2160
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266 &lt;210&gt; SEQ ID NO: 6

267 &lt;211&gt; LENGTH: 730

268 &lt;212&gt; TYPE: PRT

269 &lt;213&gt; ORGANISM: Candida albicans

271 &lt;400&gt; SEQUENCE: 6

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275 Ser Thr Leu Asp Glu Ile Arg Arg Ala Tyr Arg Lys Leu Ser Leu Arg
276           20           25           30
278 Tyr His Pro Asp Lys Thr Pro Arg Glu Asp His Glu Lys Phe Lys
279           35           40           45
281 Glu Ile Asn Ile Ala Tyr Glu Thr Ile Arg Asp Tyr Tyr Gln Glu Asn
282           50           55           60
284 Gly Gln Lys Asn Ser Gln Pro Ile Pro Asn Thr Asn Thr Glu His Asn
285           65           70           75           80
287 Ser His Gln Lys Pro His Tyr Asn Thr Gly Pro Tyr Ser Thr Tyr Arg
288           85           90           95
290 Phe Thr Thr Ser Ser Thr Thr Thr Asp Asn Thr Asn His Thr Gly His
291           100          105          110
293 Ser Ser Ser Arg Phe Thr Tyr Tyr Asn Phe His Gln Lys Ala Gln Glu
294           115          120          125
296 Asn Asn Arg Lys Gln Asp Glu Glu Arg Ala Ala Gln Arg Glu Arg Leu
297           130          135          140
299 Lys Lys Glu Leu Phe Gln Arg Gln Gln Ala Glu Ala Gln Arg Lys
300          145          150          155          160
302 Lys Glu Phe Glu Gln Lys Ala Glu Phe Ile Lys Ala Ser Leu Leu Glu
303           165          170          175
305 Met Arg Arg Arg Glu Ile Glu Arg Arg Lys Gln Gln Lys Glu Arg Glu
306           180          185          190
308 Gln Arg Gln Lys Glu His Glu Ala Lys Arg Asp Ile Arg Ile Gln Gln

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:13; Xaa Pos. 58,185  
Seq#:57; N Pos. 6728  
Seq#:58; Xaa Pos. 2243  
Seq#:114; Xaa Pos. 424,465

## VERIFICATION SUMMARY

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L:556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:48

M:341 Repeated in SeqNo=13

L:2919 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:6720

L:3369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:2240

L:6750 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:416

M:341 Repeated in SeqNo=114